

Abstract of the Disclosure

Three-dimensional data that is processed is divided by the number of threads in the third
5 dimensional direction and stored to respective
secondary cache memories of the threads. Each
thread Fourier transforms data stored in the
secondary cache in the first dimensional direction
and the second dimensional direction. As a result,
10 a two-dimensional Fourier transform can be
performed in parallel at a time. The resultant data
that has been two-dimensionally transformed is
restored to a shared memory. Each thread Fourier
transforms the data in the third dimensional
15 direction.

00012829-032101